GM L8T 6.6L 2650 Supercharger



Harrop Engineering develops and manufactures premium supercharger kits in Melbourne, Australia. Through 60 years of automotive performance Engineering, Harrop Engineering have successfully manufactured and supplied Superchargers to Automotive OEM programmes including TRD, Lotus Cars and Ford Australia. Harrop Engineering is certified to meet ISO 9001 standards of quality. OEM Quality, performance and vehicle integration are the foundation of Harrop Supercharger kits.



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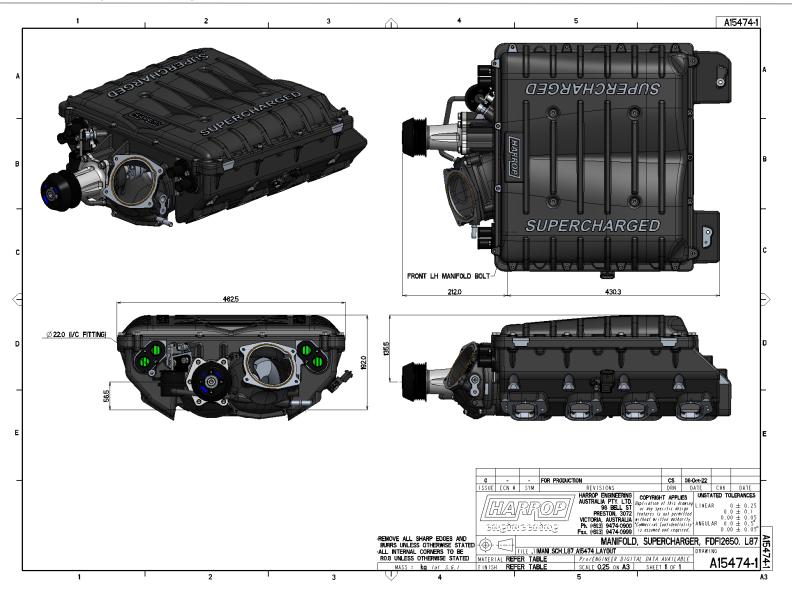
Key Features:

- 2650 Engine kit P/N 99-EK-A15973
- Inverted Large plenum design
- Dual intercooler cores
- Bosch TMAP 0281002514 2.5Bar
- 22mm water in / out intercooler lines
- 6PK supercharger drive from OEM belt path (GripTec supercharger pulleys 65mm-85mm)
- Alternator relocation and additional idler
- Retains OEM accessories
- Supplied with 87mm throttle body adaptor to suit OEM 87mm throttle body
- Optional billet 103mm and 112mm throttle body adaptors available to suit aftermarket throttle bodies
- Optional port injection kit



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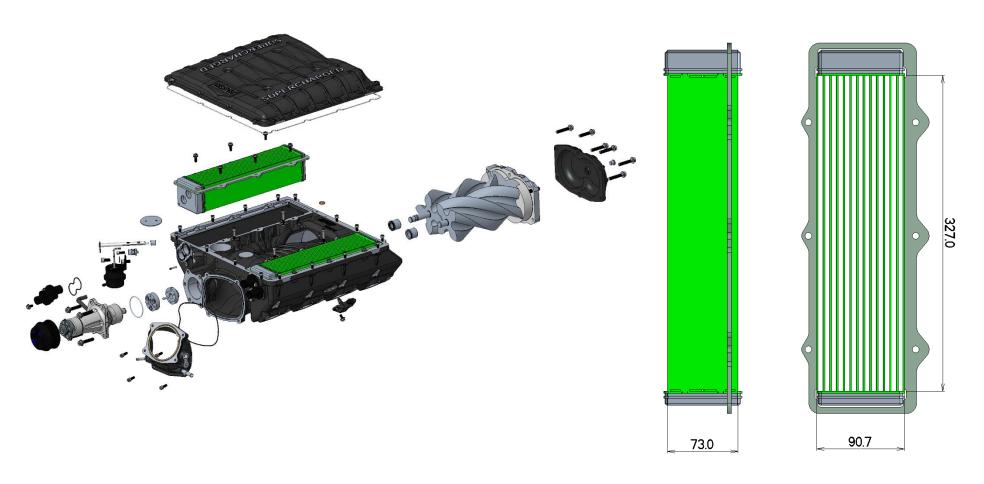




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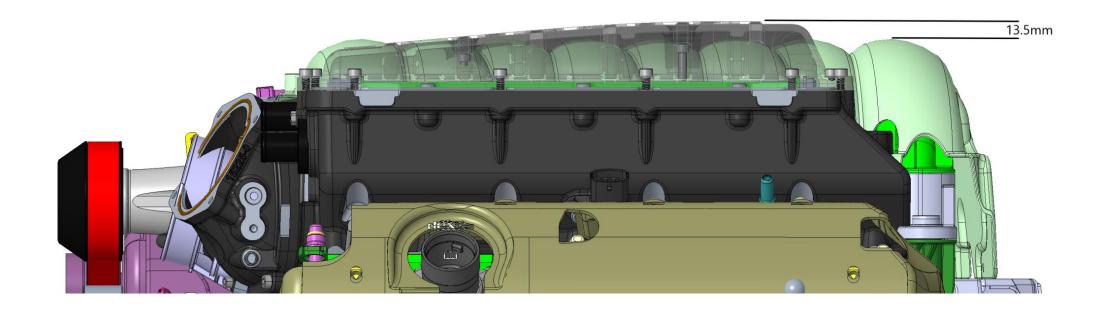
Intercooler layout/dimensions:



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Supercharger manifold with port injection spacers vs OEM L8T manifold in OEM position

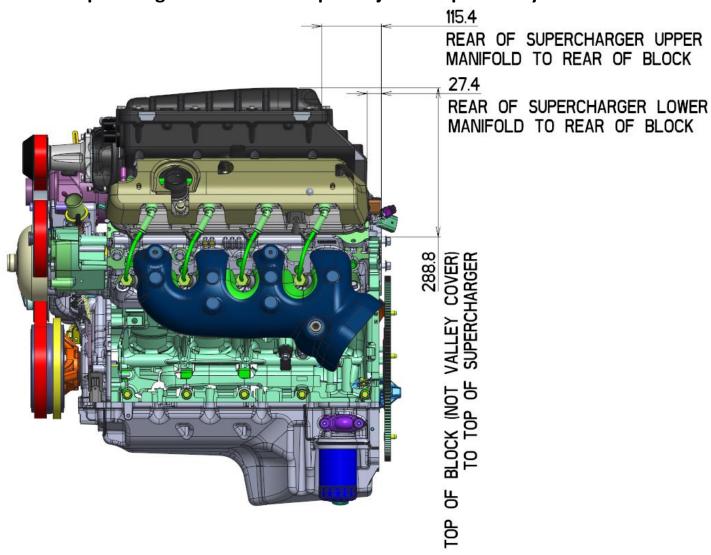


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Supercharger manifold with port injection spacers layout



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6PK belt path

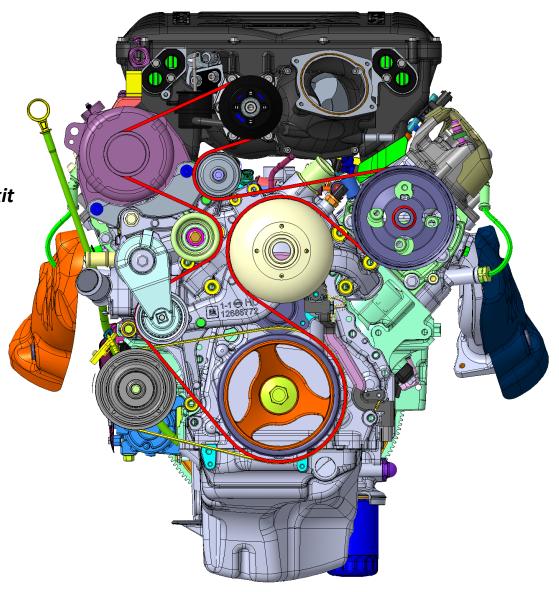
 Belt path shown in red with alternator relocation and additional idler

6PK Pulleys and belt length without port injection kit

- 65mm 99-PLY13099-GT 6PK2415
- 70mm 99-PLY11625-GT 6PK2415
- 75mm 99-PLY11624-GT 6PK2415
- 80mm 99-PLY11623-GT 6PK2446
- 85mm 99-PLY11622-GT 6PK2446

6PK Pulleys and belt length with port injection kit

- 65mm 99-PLY13099-GT 6PK2415
- 70mm 99-PLY11625-GT 6PK2415
- 75mm 99-PLY11624-GT 6PK2446
- 80mm 99-PLY11623-GT 6PK2446
- 85mm 99-PLY11622-GT 6PK2446

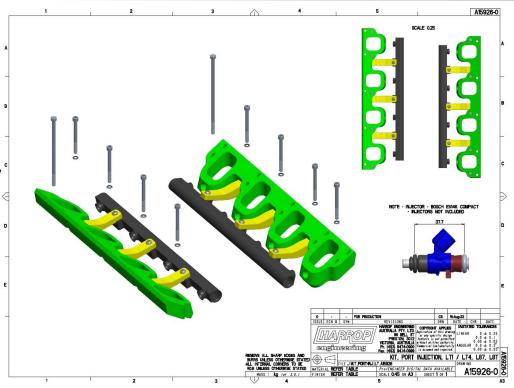


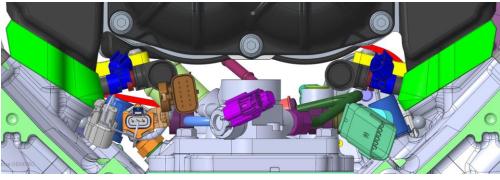
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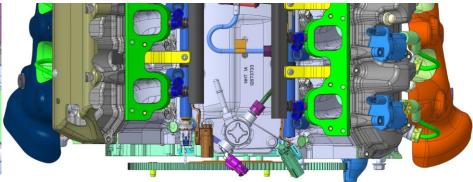


Port injection kit – optional, P/N: 99-AKIT15926

- Aluminum anodized spacers, mounts, and fuel rails
- Lifts manifold ~28mm
- Injectors in valley for better injection angle
- Can be used in conjunction with OEM DI fuel system
- -8 ORB both ends of rail for fuel line installation flexibility
- Bosch EV14K compact injectors
- Can also be used with OEM or aftermarket manifolds for N/A applications
- Replacement of DI injectors with solid injector plugs is required for port only applications
- 33mm clearance from the port injection rails to the wiring harness at the rear of the engine







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Throttle body adaptor options

- Cast 87mm angled adaptor for OEM L8T, L87, LT1, LT4 throttles (supplied with supercharger)
 - 104x70mm bolt pattern
- Billet 103mm straight adaptor for LS, LT 102/103mm throttles (available at additional cost and requires optional port injection kit for clearance to water neck)
 - 104x70mm bolt pattern
- Billet 112mm straight adaptor for LS, LT 112mm throttles (available at additional cost and requires optional port injection kit for clearance to water neck)
 - 126x70mm bolt pattern





87mm angled adaptor P/N - 99-AADP14994



103mm straight adaptor P/N - 99-AADP15981



112mm straight adaptor P/N - 99-AADP16068

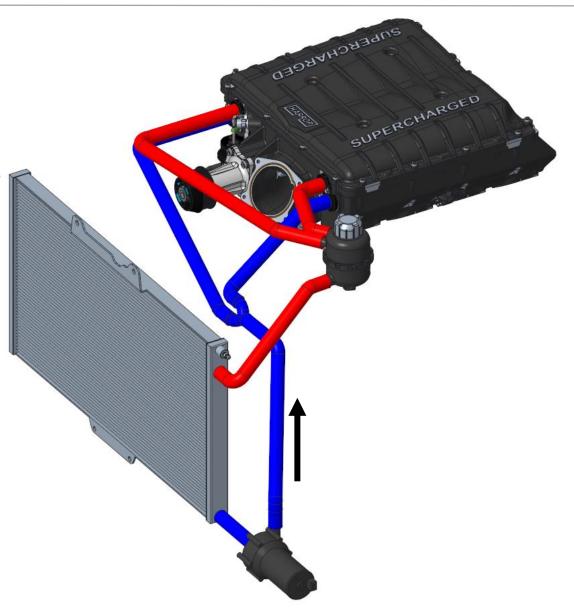
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Generic intercooler routing

- Illustration is a generic coolant circuit diagram. Engine kit does not include reservoir, radiator, pump or hoses
- Black arrow indicates flow direction
- Intercooler reservoir must be mounted at the highest point in the circuit
- Intercooler pump must be mounted at the lowest point in the circuit
- Intercooler system must be filled with a 1:1 mix of GM6277M coolant concentrate and distilled or deionised water



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Engine kit P/N 99-EK-A15973

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|---|----------|--|-----|---|--|--|--|
| М | ASSEMBLY | DESCRIPTION MANIFOLD, SUPERCHARGER, FDF12650. L87 | OTY | MATERIAL | FILENAME | DRAWING | |
| - | PART | MOUNT, ALTERNATOR, L87 ENGINE | 1 | REFER TABLE | MANI_SCHROR_2650_L87_A15474 | AI5474-1 | |
| + | PART | | 1 | 6061_ALUMINIUM | MNT_ALT_L87_SC_15189 | 15189-0 | |
| + | | DOWEL, TUBE, DIATSXIOXI2 LONG | 2 | STEEL_CS1020 | DOWEL_TUBE_10-15_15165 | 15165-0 | |
| + | PART | SPACER, IDLER, LBT, 2650 | 1 | 4140_STEEL | SPCR_IDLR_L8T_15843 | 15843-0 | |
| + | PART | PULLEY, IDLER, FLAT, 065 OD, DAYCO EP257 | 1 | MLD.STEEL | PLY_IDL_FLAT_EP257 | - | |
| + | PART | WASHER, PULLEY, TRANSFER, SUPERCHARGER, LS112 | 1 | 2011_ALUMINIUM | WASH_PUL_TRANS_LSft2_7430 | 7430-00 | |
| + | PART | SCREW, SOCKET HEAD CAP, MIO x 120, ZINC PLATED | 1 | AS_SUPPLED | SH_MIOX120_ZINC | - | |
| 1 | PART | SPACER, PULLEY, SUPERCHARGER, 12MM, 4X40 | 1 | 304L.S/S | SPCR_PLY_SC_1-2MM_4X40_15970 | 15970-0 | |
| | PART | SCREW, SOCKET HEAD CAP, M6 x 16, TUFLOC 360, GEOMET500A | 4 | AS_SUPPLIED | SH_IM6X16_GEOMET500A_TUFLOC | 6390386 | |
| | PART | SCREW, BUTTON HEAD CAP, MIOX80, ZINC PLATED | 2 | AS SUPPLIED | BH_MMOX80_ZINC | - | |
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